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kinase;

- (5) a gene for or related to an intermediate filament marker;
- (6) a gene related to cell cycle or growth
  5 regulation;
  - (7) an oncogene, a gene related to an oncogene or a gene related to tumor suppression;
    - (8) a gene related to apoptosis;
  - (9) a gene related to damage response, repair or recombination of DNA;
    - (10) a gene for or related to a receptor;
  - (11) a gene related to cell death or differentiation regulation;
  - (12) a gene related to adhesion, motility or invasion of cell;
    - (13) a gene related to angiogenesis promotion;
    - (14) a gene related to cellular invasion;
    - (15) a gene related to cell-cell interaction;
- (16) a gene for or related to a Rho family,
  20 GTPase or a regulator therefor; and
  - (17) a gene for or related to a growth factor or a cytokine,

or a DNA fragment derived from the gene is used.

3. A method for detecting an endocrine disruptor, characterized in which the method comprises

measuring the expression of the gene detected by the method according to claim 1 or 2.

- 4. The method according to claim 3, wherein the endocrine disruptor is selected from ones classified into:
  - (1) dioxins;
  - (2) organochlorine compounds;
  - (3) phenols;
  - (4) phthalate esters;
  - (5) aromatic hydrocarbons;
  - (6) pesticides;
  - (7) organotin compounds;
  - (8) estrogens; or
  - (9) mirex, toxaphene, aldicarb or kepone.
- 5. A method for detecting a substance that potentially causes endocrine disruption, characterized in which the method comprises:

preparing a nucleic acid sample containing mRNAs, or cDNAs therefor, derived from a cell, a tissue or an organism which has been exposed to a sample that is suspected to contain a substance that potentially causes endocrine disruption;

hybridizing the nucleic acid sample with a DNA array onto which genes which are influenced by an endocrine disruptor or DNA fragments derived from the genes which are influenced by the endocrine disruptor are immobilized; and

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detecting a substance that potentially causes endocrine disruption by comparing the results with results for a nucleic acid sample prepared using a control sample.

- 6. The method according to claim 5, wherein the substance that potentially causes endocrine disruption is classified into:
  - (1) dioxins;
  - (2) organochlorine compounds;
  - (3) phenols;
  - (4) phthalate esters;
  - (5) aromatic hydrocarbons;
  - (6) pesticides;
  - (7) organotin compounds;
  - (8) estrogens; or
  - (9) mirex, toxaphene, aldicarb or kepone.
- 7. A DNA array for detecting a gene that is influenced by an endocrine disruptor, onto which a gene that is influenced by an endocrine disruptor or a gene that is potentially influenced by an endocrine disruptor, or a DNA fragment derived from the gene is immobilized.
- 8. The DNA array according to claim 7, onto which a gene selected from the group consisting of:
- (1) a gene for a nuclear receptor or a gene related to nuclear receptor transcriptional coupling;
- 25 (2) a gene related to kinase-type signal